

Applicants: Andrew Hoffman
U.S.S.N. 09/616,483

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously amended) A drug delivery device for a mammal comprising a cup-shaped body for enclosing only one external nare, wherein said device does not extend into the nostril of said mammal and said device comprises an interfacing lumen the diameter of which does not enclose a second external nare of said mammal, and wherein said device comprises a unidirectional inhalation valve and lacks an exhalation valve.

2. (canceled)

3. (originally filed) The device of claim 1, wherein said device does not enclose the mouth of said mammal.

4. (originally filed) The device of claim 1, wherein said device comprises a patient-actuated inhalation valve.

5. (canceled)

6. (previously amended) The device of claim 1, wherein said interfacing lumen comprises a diameter which covers only one nare and not both nares of a horse, a cow, a sheep, or a goat.

7. (previously amended) The device of claim 1, wherein said device is adapted for use on a horse.

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8. (originally filed) The device of claim 1, wherein said cup-shaped body comprises a flexible interface for contacting the face said mammal.

9. (originally filed) The device of claim 1, wherein said interface is angled.

10. (originally filed) The device of claim 1, wherein said interface is straight.

11. (originally filed) The device of claim 1, wherein said device comprises a spacer holding chamber, said chamber being in communication with said cup-shaped body.

12. (originally filed) The device of claim 11, wherein said chamber comprises a lumen for receiving a therapeutic agent.

13. (originally filed) The device of claim 12, wherein said lumen is adapted to receive an aerosol container.

14.(presently amended) The device of claim 12, wherein said lumen is adapted to receive a metered-dose inhaler (MDI) cannister.

15. (originally filed) A method for preventing or treating a respiratory condition of a mammal, comprising contacting one nare of said mammal with the device of claim 1 and delivering an effective dose of a therapeutic composition through said device in a single inhaled breath of said mammal.

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16. (originally filed) The method of claim 15, wherein said mammal is selected from the group consisting of a horse, a cow, a sheep, and a goat.

17. (originally filed) The method of claim 15, wherein said mammal is a horse.

18. (originally filed) The method of claim 15, wherein said therapeutic composition is administered in the form of a plume of aerosolized particles.

19. (previously amended) The method of claim 18, wherein said particles do not exceed 10 microns in size and wherein said particles are delivered to small airways of the lung.

20. (previously amended) The method of claim 18, wherein said particles are in the size range of 3-5 microns and wherein said particles are delivered to small airways of the lung.

21. (previously amended) The method of claim 15, wherein said therapeutic composition is administered in the form of a dry powder.

22. (previously amended) The device of claim 1, wherein said device lacks a rebreathing chamber.

23. (previously presented) The device of claim 1, wherein the interior volumen of said device is approximately 200-500 milliliters.

24. (previously presented) The device of claim 1, wherein the length of said device is 6-9 inches.

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25. (new) A drug delivery device for a mammal comprising a cup-shaped body for enclosing only one external nare, wherein said device

does not extend into the nostril or mouth of said mammal;

comprises an interfacing lumen the diameter of which does not enclose a second external nare of said mammal;

comprises a holding chamber for holding the drug in a cloud suspension, said holding chamber being in communication with said cup-shaped body and comprising a unidirectional inhalation valve located between said holding chamber and said cup-shaped body; and

lacks an exhalation valve.

26. (new) The device of claim 25, wherein said device does not enclose the mouth of said mammal.

27. (new) The device of claim 25, wherein said device comprises a patient-actuated inhalation valve.

28. (new) The device of claim 25, wherein said interfacing lumen comprises a diameter which covers only one nare and not both nares of a horse, a cow, a sheep, or a goat.

29. (new) The device of claim 25, wherein said device is adapted for use on a horse.

30. (new) The device of claim 25, wherein said cup-shaped body comprises a flexible interface for contacting the face said mammal.

31. (new) The device of claim 25, wherein said interface is angled.

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32. (new) The device of claim 25, wherein said interface is straight.
33. (new) The device of claim 25, wherein said chamber comprises a lumen for receiving a therapeutic agent.
34. (new) The device of claim 33, wherein said lumen is adapted to receive an aerosol container.
35. (new) The device of claim 33, wherein said lumen is adapted to receive a metered-dose inhaler (MDI) cannister.
36. (new) A method for preventing or treating a respiratory condition of a mammal, comprising contacting one nare of said mammal with the device of claim 25 and delivering an effective dose of a therapeutic composition through said device in a single inhaled breath of said mammal, wherein particles of said therapeutic composition are maintained in a cloud suspension at a size suitable for gaining access to small airways of the lung in said holding chamber prior to inhalation by said mammal.
37. (new) The method of claim 36, wherein said mammal is selected from the group consisting of a horse, a cow, a sheep, and a goat.
38. (new) The method of claim 36, wherein said mammal is a horse.

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39. (new) The method of claim 36, wherein said therapeutic composition is administered in the form of a plume of aerosolized particles.

40. (new) The method of claim 39, wherein said particles do not exceed 10 microns in size and wherein said particles are delivered to small airways of the lung.

41. (new) The method of claim 39, wherein said particles are in the size range of 3-5 microns and wherein said particles are delivered to small airways of the lung.

42. (new) The method of claim 36, wherein said therapeutic composition is administered in the form of a dry powder.

43. (new) The device of claim 25, wherein said device lacks a rebreathing chamber.

44. (new) The device of claim 25, wherein the interior volume of said device is approximately 200-500 milliliters.

45. (previously amended) The device of claim 25, wherein the length of said device is 6-9 inches.